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AGRICULTURAL MEMORANDUM NO 451

Return to Capacity, Wheat & Fallow Acreages - EAST MIDLANDS

L P Smith

Mean return dates were found by taking sample stations for each part of the region (as per Tech Bull 24) and

Weighting w.r.t. total cereal acreage - Rc (where S1 = 1)
Weighting w.r.t. wheat acreage - Rw

and these were compared to the fallow acreage (F) and the wheat acreage (W) respectively (in units of 1000 acres).

Results

Year	Rc	F	Rw	W	Estimated W
1959	4.1	61.0	4.1	377.8	358
1961	4.9	39.9	5.0	355.6	381
1966	5.6	42.4	5.7	433.0	432
1967	7.2	31.2	7.3	442.3	449
1968	7.8	24.9	8.0	478.7	462
1964	9.9	27.1	10.0	428.6	434
1962	11.2	25.0	11.2	432.7	422
1960	11.2	27.7	11.3	401.6	403
1963	13.6	32.5	13.7	372.6	-
1965	17.8	21.1	18.0	482.2	483
				Mean error	9.9 (2½%)

The correlation between log Rc and log F is - 0.85.

The formula used to estimate the wheat acreage is

$$338 + 4.9\,Rw + 9.5n$$

where n is number of years after 1959.

1963 was omitted owing to heavy winter snows. As spring conditions have been ignored and the total of spring sown wheat is unknown, the fit is not unsatisfactory.

The values of Rw in 1969 and 1970 were 1.9 and 10.2, giving estimates

	Wheat acreage
June 1969	442,310
June 1970	492,480

Any comments or criticism on this paper should be referred to the author.

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